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a first amplifier circuit producing, when activated, at a first output terminal thereof a first output voltage responsive to a first voltage difference between a first reference voltage and a feedback voltage that is indicative of an optical power generated by said laser diode in response to a driving current flowing there through;

a second amplifier circuit producing, when activated, at a second output terminal thereof a second output voltage responsive to a second voltage difference between a second reference voltage and said feedback voltage; and

a driving circuit responding to an activated one of said first and second output voltage to control said driving current so as to make a corresponding one of said first and second voltage difference small, respectively,

at least one of said first and second amplifier circuits driving one of said first and second output terminals with a first time constant during a steady operation and with a second time constant that is smaller than said first time constant upon initiation and before said steady operation.



11. (Amended) The circuit according claim 10, wherein at least one of said first and second amplifier circuits further includes a first resistor, a second resistor coupled in parallel to said capacitor, and a second switch coupled to said input end of said operational amplifier through said first resistor, said second switch being turned ON during said steady operation and OFF upon said initiation.



13. (Amended) The circuit according claim 11, wherein at least one of said first and second amplifier circuits further includes a third switch coupled to said capacitor, forming an electrical path between said input end of said operational amplifier and said capacitor during said steady operation and providing said input end of said operational amplifier with said first reference voltage upon said initiation.

## Please add the following new claims:



-- 15. A power control circuit for a laser diode, comprising:

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an amplifier circuit producing at an output terminal thereof an output voltage responsive to a voltage difference between a reference voltage and a feedback voltage that is indicative of an optical power generated by said laser diode in response to a driving current flowing therethrough; and

a driving circuit responding to said output voltage to control said driving current so as to make said voltage difference small,

wherein said output voltage comprises a steady operation period of time and an initiation period of time prior to said steady operation period of time,

wherein said driving current flows through said laser diode during both said steady operation period of time and said initiation period of time, and

wherein said amplifier circuit drives said output terminal with a first time constant during said steady operation period of time and with a second time constant, which is smaller than said first time constant, during said initiation period of time.

- 16. The circuit according to claim 8, wherein each of said first and second output voltages comprises a steady operation period of time and an initiation period of time prior to said steady operation period of time.
- 17. The circuit according to claim 16, wherein said driving current flows through said laser
   diode during both said steady operation period of time and said initiation period of time.
- 3 18. The circuit according to claim 16, wherein at least one of said first and second amplifier
- 4 circuits drives an associated one of said first and second output terminals with a first time
- 5 constant during said steady operation period of time and with a second time constant, which
- 6 is smaller than said first time constant, during said initiation period of time.
- 1 19. The circuit according to claim 1, wherein said output voltage comprises a steady
- 2 operation period of time and an initiation period of time prior to said steady operation period
- 3 of time.

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20. The circuit according to claim 1, wherein said driving current flows through said laser

diode during both said steady operation period of time and said initiation period of time. --